٦٠

Claims 1-18: (Canceled)

- 19. (Currently Amended) An apparatus comprising:
 - a substrate comprising a first lattice structure;
- a strain-inducing layer disposed on the substrate having a second lattice structure different than the first lattice structure; and
 - a strained layer disposed on the strain-inducing layer,
- wherein the strain-inducing layer and the strained layer are disposed in a channel region for a transistor device and the second lattice structure is defined by a lateral contraction or expansion of the strain-inducing layer,

wherein when the strain-inducing layer comprises silicon germanium[;], germanium comprises between approximately 20 and 25 percent of the silicon germanium.

- 20. (Previously Presented) The apparatus of Claim 19, further comprising:
 - a gate electrode disposed on the strained layer;
 - a first spacer disposed adjacent to a first side of the gate electrode; and
 - a second spacer disposed adjacent to a second side of the gate electrode,
- wherein the strain-inducing layer and the strained layer comprises lateral edges defined by an edge of the first spacer and an edge of the second spacer.
- 21. (Canceled)
- 22. (Canceled)
- 23. (Original) The apparatus of Claim 19, wherein the apparatus comprises: an n-type metal oxide semiconductor.

10/714,139 2 42390P16000

- (Original) The apparatus of Claim 23, wherein the strain-inducing layer comprises: 24. silicon germanium.
- 25. (Original) The apparatus of Claim 24, wherein germanium comprises between approximately 20 and 25 percent of the silicon germanium.
- 26. (Original) The apparatus of Claim 24, wherein the silicon germanium layer has a thickness of between approximately 400 and 500 Å.
- (Original) The apparatus of Claim 26, wherein the strained layer comprises silicon and 27. has a thickness of between approximately 100 and 200 Å.
- (Original) The apparatus of Claim 19, wherein the apparatus comprises: 28. a p-type metal oxide semiconductor.
- 29. (Original) The apparatus of Claim 28, wherein the strain-inducing layer comprises: silicon carbide.
- (Original) The apparatus of Claim 29, wherein carbon comprises between approximately 30. 1 and 2 percent of the silicon carbide.
- 31. (Currently Amended) A system comprising: an integrated circuit package comprising
 - a substrate comprising a first lattice structure,
- a strain-inducing layer disposed on the substrate, the strain-inducing layer comprising a second lattice structure different than the first lattice structure, and
 - a strained layer disposed on the strain-inducing layer,

wherein the strain-inducing layer and the strained layer are disposed in a channel region for a transistor device and the second lattice structure is defined by a lateral contraction or expansion of the strain-inducing layer,

wherein when the strain-inducing layer comprises silicon germanium[;].

germanium comprises between approximately 20 and 25 percent of the silicon germanium.

- 32. (Original) The system of Claim 31, wherein the system comprises: an n-type metal oxide semiconductor.
- 33. (Original) The system of Claim 32, wherein the strain-inducing layer comprises: silicon germanium.
- 34. (Original) The system of Claim 33, wherein germanium comprises between approximately 20 and 25 percent of the silicon germanium.
- 35. (Original) The system of Claim 31, wherein the system comprises: a p-type metal oxide semiconductor.
- 36. (Original) The system of Claim 35, wherein the strain-inducing layer comprises: silicon carbide.
- 37. (Original) The system of Claim 36, wherein carbon comprises between approximately 1 and 2 percent of the silicon carbide.